

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 1 of 1

PATENT NO. : 7,404,675 B2

APPLICATION NO.: 10/747,669

ISSUE DATE : July 29, 2008

INVENTOR(S) : Fusasuke GOTOH

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The following are added to the front page of the patent in the left column:

-- (63) Related U.S. Application Data

Continuation of application No. 09/691,457, filed on Oct.

18, 2000, now Pat. No. 6,719,459. --

-- (30) Foreign Application Priority Data

Oct. 18, 1999 (JP) H11-295823

Nov. 16, 1999 (JP) H11-325301

Dec. 28, 1999 (JP) H11-374986 --

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Katten Muchin Rosenman LLP
575 Madison Avenue
New York, NY 10022-2585

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Fusasuke GOTOH
U. S. Patent No. : 7,404,675 B2
Serial No. : 10/747,669
Issued : July 29, 2008
For : BALL BEARING

April 1, 2009

Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR A CERTIFICATE OF CORRECTION

SIR:

We request a Certificate of Correction under 35 U.S.C. §254, to add the following items below:

Related U.S. Application Data, which was omitted. Please add: -- **Continuation of application No. 09/691,457, filed on October 18, 2000.** --

Foreign Application Priority Data, which were omitted. Please add: -- **Oct. 18, 1999 (JP) H11-295823, Nov. 16, 1999 (JP) H11-325301 and Dec. 28, 1999 (JP) H11-374986** --

Attached, please find a copy of the front page of the Patent, Filing Receipt and Declaration and Power of Attorney for Patent Application.

This was due to an error made by the USPTO.

Any fee due as a result of this paper, may be charged to Deposit account No. 50-1290.

Respectfully submitted,

/Hassan A. Shakir/

Hassan A. Shakir

Reg. No. 53,922

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(Tel) 212-940-8800
Docket No.: KAM 17.895B(100799-00090)



US007404675B2

(12) United States Patent
Gotoh**(10) Patent No.:** US 7,404,675 B2
(45) Date of Patent: Jul. 29, 2008

- (54) **BALL BEARING**
- (75) **Inventor:** Fusasuke Gotoh, Fujisawa (JP)
- (73) **Assignee:** NSK Ltd., Tokyo (JP)
- (*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 21 days.
- (21) **Appl. No.:** 10/747,669
- (22) **Filed:** Dec. 29, 2003

(65) **Prior Publication Data**
US 2004/0252925 A1 Dec. 16, 2004

- (51) **Int. Cl.**
F16C 33/38 (2006.01)
F16C 33/72 (2006.01)
- (52) **U.S. CL.** 384/523; 384/484
- (58) **Field of Classification Search** 384/521,
384/523, 533, 534, 535, 536, 484, 485, 486
See application file for complete search history.

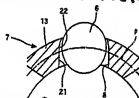
- (56) **References Cited**
- U.S. PATENT DOCUMENTS**
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| 6,068,408 | A * | 5/2000 | Mutoh et al. | 384/523 |

FOREIGN PATENT DOCUMENTS

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Insert:**Related U.S. Appl. DATA**

(63) **Continuation of Appl. No.**
09/691,457 Filed on Oct. 18, 2000



(30) **Foreign Appl. Priority DATA**
Oct. 18, 1999 (JP) - - H11-295823
Nov. 16, 1999 (JP) - - H11-325301
Dec. 28, 1999 (JP) - - H11-374986

JP	6-27859	7/1994
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JP	9-158951	6/1997
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JP	10-82424	3/1998
JP	11-201169	7/1999

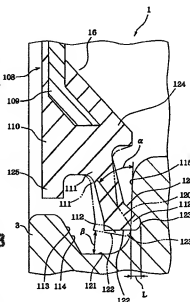
* cited by examiner

Primary Examiner—William C Joyce
(74) **Attorney, Agent, or Firm**—Katten Michin Rosenman LLP

(57) ABSTRACT

A retainer for a ball bearing formed in a generally annular shape and having a plurality of pockets arranged in a circumferential direction, respectively, to rollably hold a plurality of balls along a pitch circle, respectively, the pockets each having an inner peripheral surface comprising a radially inner section which is located inward of the pitch circle of the balls in the radial direction of the retainer, and has an inner diameter larger than the diameter of the balls, such that the gap between the radially inner section of the inner peripheral surface of the pockets and the rolling surface of the balls gradually increases toward the opening of the pockets on the inner side in the radial direction of the retainer, and that the maximum inscribing circle of the opening of the pockets on the outer side in the radial direction of the retainer has a diameter smaller than the diameter of the balls.

3 Claims, 32 Drawing Sheets



958 8 2004
UNITED STATES PATENT AND TRADEMARK OFFICEUNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/747,669	12/29/2003	3682	1534	KAM 17.895B (100799-00090	32	11	7

026304
KATTEN MUCHIN ZAVIS ROSENMAN
575 MADISON AVENUE
NEW YORK, NY 10022-2585

CONFIRMATION NO. 1565

UPDATED FILING RECEIPT



06000000013725606

Date Mailed: 09/03/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Fusasuke Gotoh, Fujisawa-shi, JAPAN;

Power of Attorney:

Aaron Karas--18923
Samson Helfgott--23072
Emma Shleifer--29734

Domestic Priority data as claimed by applicant

This application is a CON of 09/691,457 10/18/2000 PAT 6,719,459

Foreign Applications

JAPAN H11-295823 10/18/1999
JAPAN H11-325301 11/16/1999
JAPAN H11-374986 12/28/1999

If Required, Foreign Filing License Granted: 04/15/2004

The number of your priority application, to be used for filing abroad under the Paris Convention is,
US10/747,669

Projected Publication Date: 12/16/2004

Non-Publication Request: No

Early Publication Request: No

Title

Ball bearing

Preliminary Class

384

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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Declaration and Power of Attorney For Patent Application

特許出願宣言書

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私は、下欄に氏名を記載した発明者として、
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As a below named inventor, I hereby declare that:

私の住所、郵便の宛先および国籍は、下欄に
氏名に続いて記載したとおりであり、

My residence, post office address and citizenship are stated
below next to my name,

名称の発明に関し、請求の範囲に記載した特
許を求める主題の本来の、最初にして唯一の
発明者である（一人の氏名のみが下欄に記載
されている場合）か、もしくは本来の、最初
にして共同の発明者である（複数の氏名が下
欄に記載されている場合）と信じ、

I believe I am the original, first and sole inventor (if only one
name is listed below) or an original, first and joint inventor (if
plural names are listed below) of the subject matter which is
claimed and for which a patent is sought on the invention
entitled

Ball Bearing

その明細書を

（該当する方に印を付す）

☐ ここに添付する。

☐ _____ 日に出席番号
第 _____ 号として提出し、
_____ 日に補正した。

（該当する場合）

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on bas October 18, 2000 as

Application Serial No. 09/691,457

and was amended on _____

(if applicable)

私は、前記のとおり補正した請求の範囲を
含む前記明細書の内容を検討し、理解したこ
とを陳述する。

I hereby state that I have reviewed and understand the con-
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as amended by any amendment referred to above.

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(a) 項に従い、本願の審査に所要の情報を
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I acknowledge the duty to disclose information which is ma-
terial to the examination of this application in accordance with
Title 37, Code of Federal Regulations, §1.56(a).

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私は、合衆国法典第35部第119条にもとづく下記の外国特許出願または発明者証出願の外国優先権利益を主張し、さらに優先権の主張に係る基礎出願の出願日前の出願日を有する外国特許出願または発明者証出願を以下に明記する：

Prior foreign applications
先の外国出願

H11-295823 Japan
(Number) (Country)
(番号) (国名)

18/October/1999
(Day/Month/Year Filed)
(出願の年月日)

Priority claimed
優先権の主張

☒ Yes
あり

☐ No
なし

H11-325301 Japan
(Number) (Country)
(番号) (国名)

16/November/1999
(Day/Month/Year Filed)
(出願の年月日)

☒ Yes
あり

☐ No
なし

H11-374986 Japan
(Number) (Country)
(番号) (国名)

28/December/1999
(Day/Month/Year Filed)
(出願の年月日)

☒ Yes
あり

☐ No
なし

私は、合衆国法典第35部第120条にもとづく下記の合衆国特許出願の利益を主張し、本願の請求の範囲各項に記載の主題が合衆国法典第35部第112条第1項に規定の態様で先の合衆国出願に開示されていない限りにおいて、先の出願日と本願の国内出願日またはPCT国際出願日の間に公表された連邦規則法典第37部第1章第56(a)項に記載の所要の情報を開示すべき義務を有することを認める：

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

(Application Serial No.)
(出願番号)

(Filing Date)
(出願日)

(現況) (Status)
(特許済み、係属中、放棄済み) (Patented pending/abandoned)

(Application Serial No.)
(出願番号)

(Filing Date)
(出願日)

(現況) (Status)
(特許済み、係属中、放棄済み) (Patented pending/abandoned)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made of information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

委任状：私は、下記発明者として、以下の代理人をここに選任し、本願の手続きを遂行すること並びにこれに関する一切の行為を特許商標庁に対して行うことを委任する。

(代理人氏名および登録番号を明記のこと)

Aaron B. Karas, Reg. No. 18,923
Samson Samson Helfgott, Reg. No. 23,072
Emma Shleifer, Reg. No. 29,734

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent (s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

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Samson Helfgott, Reg. No. 23,072
Emma Shleifer, Reg. No. 29,734

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Full name of sole or first inventor

Fusasuke GOTOH

同発明者の署名 日付

Inventor's signature

Date

Fusasuke Gotoh December 1, 2000

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国籍

Citizenship

Japan

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Kanagawa-ken, Japan

第2の共同発明者の氏名(該当する場合)

Full name of second joint inventor, if any

同第2発明者の署名 日付

Second inventor's signature

Date

住所

Residence

国籍

Citizenship

郵便の宛先

Post Office Address

(第6またはそれ以降の共同発明者に対して同様な情報および署名を提供すること。)

(Supply similar information and signature for third and subsequent joint inventors.)